Practical Capillary Electrophoresis

Agilent Chemical Analysis Training Courses

H5940A

One Day
Lecture Only

Description

Introduces the practice of capillary electrophoresis. Explains the principles and instrumentation as well as the modes of operation.

Describes methods development and provides practical hints for performing this technique efficiently and accurately.

Course Outline

Theory and Principles of HPCE

- Separation by CE
- Mobility
- Electro-Osmotic Flow
- Efficiency and Resolution

Capillary Electrophoresis Instrumentation

- Capillary Conditioning and Thermostating
- Sample Injection
- Detection

Modes of Operation

- Capillary Zone Electrophoresis
- Micellar Electrokinetic Chromatography
- Capilary Gel Electrophoresis
- Capillary Isoelectric Focusing
- Capillary Isotachophoresis

Method Development Strategies

- Buffer Selection
- Sample Matrix
- Peak Shape
- Commercial Kits

Applications

- Bioscience
- Pharmaceutical
- Enviromental
- Chemical
- Food

Prerequisites

Familiarity with chemical principles

Student Profile

A person interested in gaining practical knowledge of capillary electrophoresis.

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